

enemne) that allows data to thow in only one direction in one direction one direction who are direction by one direction by one direction and while other device.

A duplex channel: is a Communication channel that allows data than in both direction between two device.

I that duplex: - at a time one.

I full duplex: - simultaneousle.

channel in wineless and when notworks usedtransmit a constrol on signalling indonmation.

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3 What is spectrum—

ons: Specific range of radio trequency affects transmitting voice, data and others terms of T instanmation over the air.

spectrum is artical ton enabling device to intentenence: one and is to the judgub Half to

of how analytica applied how probable in termont

O: Voice channel: Communication channel ton transmitting voice.

- in territor pullargies in forting to timemic

971 04

g: STR: Signal to Intentenence Matio: is a key metric used to evaluate the quality of a signal relative to the intentenence that may effect it.

Str ensure optimizing Coverage Capacity, and ensuring Smooth were expensioned, especially in environments with high trather.

9: Frequency neuse tactor: is a concept in cellular network design that responsably how often the same trequency channel are used in given area.

Where M2 COM There pattern

D2 distance the holl.

Redin of the holl.

S/ R= 10 log (Q1) io)

10 = co- channel intenterence 92 Frequence reuse factor.

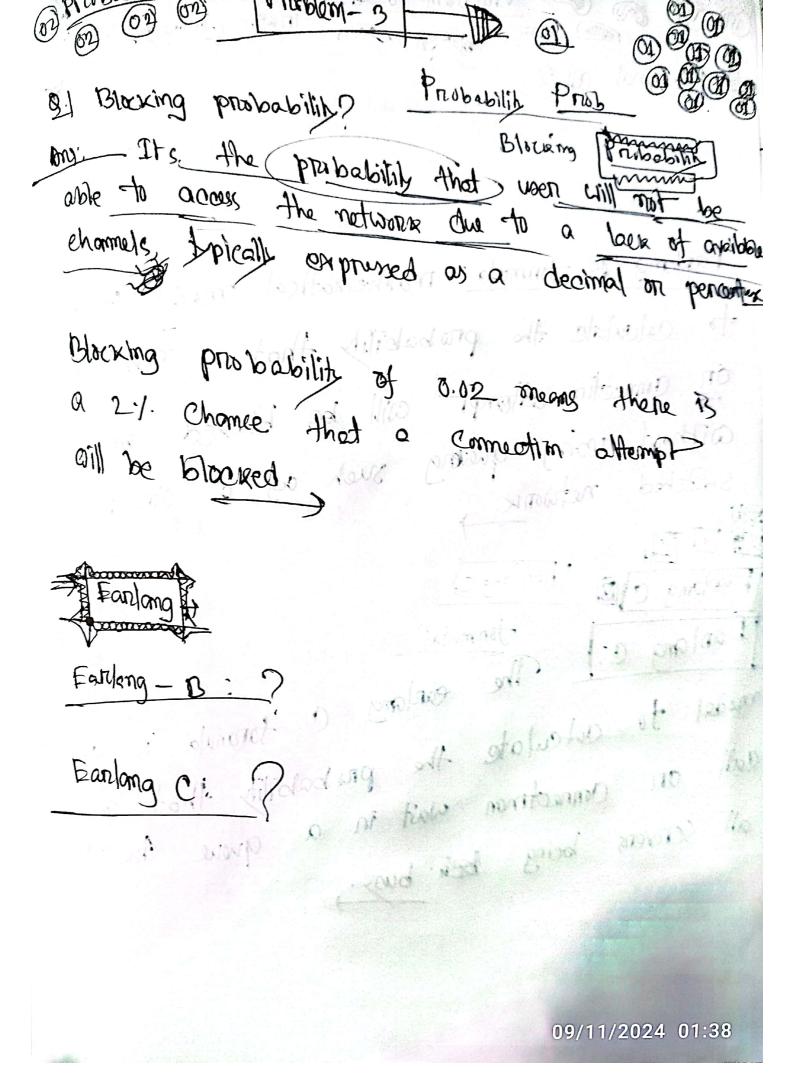
SIR - indicates that the desired stend Strongth is much Strongen than the intenterance. This result in clean, high qualify Communication with minimal noise on

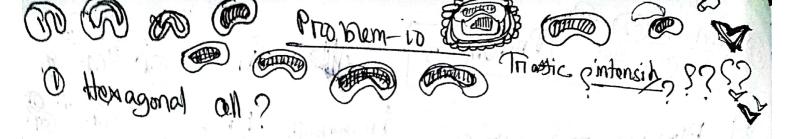
Q. exponent.

Path lass 95 the neduction in signal strength a readio waves travels through space from transmitten to a receiven.

It occurs du to various factors distances obstacles, atomosphere andition and

In system - minimum SIR nee So that's ally the Stem son must langer than J





of ento anowhom after

The new look dilibled us

Farlong B tormula: mathematical midel used to colculate the probability that a new call on armeeting attempt will be blocked and without using queens such as a circuit shitched network.

Farlong C/D Farlang C Jornala?

The earlang C Jornala is a calculate the probability that a all servery being being being bus.

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Probem-to

Hexagonal all: is a geometric shape amount used in the design of aellular notwork speterns to represent coverage areas on negions served to a single cell on base statim.

Base station: is a treed Communication tacility in Collular notwork that uses antermas transtain to establish and man-turn windless amenting with mobile device and in its available area.

What do you mean by tried statim:

Petermamenth setup to support Communication

of managing Connection. Base stations are

streed Communitation Gree its permanenth

setup.

+ 1 Earlang: 100.1 marks of a channel. Which means its Continously occupied, -) 0.5 Eanlang: 50% mags of channel indicating Its occupied hat of the time. Glain: B. an measure of the ability of a control. was alicense with interested welling the in its consissor and E-treld! Electric treld is a vector freld that's represent the two pen tonce pen unit change expended on a test change of milonomy pompe of speed. 09/11/2024 01:38

CS CamScanner

Destruction: 18 a tradio evene propagation midel that describes the received signal strength between a transmitten and receiver

Propagation?

Ons: on context of visibles amandication of retens to the war electromagnetic agency of thavely through different medium.

Travely through different medium.

Travely intensit?

One; oneasured the average damand too as a construction channel expressed in Fanlang.

The present the amount of apathic time outher 2002 through